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3.1.	The Contractor shall deliver the NAIS.	
3.1.1.	The Contractor shall deliver the Core Capability of the NAIS.	
3.1.1.1.	The Contractor shall adhere to all listed personnel requirements.	
3.1.1.1.1.	The Contractor shall provide advance notice of a change in key personnel.	
3.1.1.1.1.1.	The Contractor shall designate 5 key personnel positions.	
3.1.1.1.1.2.	The Government will designate additional key personnel as required.	
3.1.1.1.1.3.	The Contractor shall not replace key personnel without permission from KO.	
3.1.1.1.1.4.	The Contractor shall designate a Project Manager.	
3.1.1.1.1.5.	The Contractor shall designate a Lead Systems Engineer.	
3.1.1.1.1.6.	The Contractor shall designate a Lead Software Engineer.	
3.1.1.1.1.7.	The Contractor shall designate a Lead Logistician.	
3.1.1.1.1.8.	The Contractor shall designate an Environmental Manager.	
3.1.1.1.2.	The Contractor shall provide qualified personnel.	
3.1.1.1.3.	The Contractor shall provide security clearances for contracting personnel.	
3.1.1.1.4.	Contractors shall wear ID badges when visiting Government facilities.	
3.1.1.1.5.	The Contractor shall coordinate visits to Government and commercial sites.	
3.1.1.1.6.	Contractor employees shall comply with applicable Government regulations.	
3.1.1.1.7.	The Government may remove Contractor employees for misconduct.	
3.1.1.1.8.	The Contractor shall not employ Government employees.	
3.1.1.2.	The Contractor shall provide project management deliverables and services.	
3.1.1.2.1.	The Contractor shall provide PM services throughout the contract.	
3.1.1.2.2.	The Contractor shall participate in meetings.	
3.1.1.2.2.1.	The Contractor shall participate in the Post-Award Conference/Start-Up Workshop Meeting.	
3.1.1.2.2.2.	The Contractor shall participate in working group and review meetings and provide meeting deliverables.	
3.1.1.2.2.3.	The Contractor shall participate in progress meetings and provide meeting deliverables.	
3.1.1.2.3.	The Government will establish IPTs.	
3.1.1.2.3.1.	The Contractor shall participate in IPTs.	
3.1.1.2.3.2.	The Contractor shall provide agendas and minutes for all IPTs.	
3.1.1.2.4.	The Contractor shall provide a Contractor's Project Management Plan.	
3.1.1.2.4.1.	The Contractor shall maintain the CPMP throughout the contract.	
3.1.1.2.4.2.	The CPMP shall describe product and process development.	
3.1.1.2.4.3.	The CPMP shall provide the project team organization.	
3.1.1.2.4.4.	The CPMP shall include activity and outcome metrics.	
3.1.1.2.5.	The Contractor shall provide a Contract Work Breakdown Structure.	
3.1.1.2.5.1.	The Contractor shall maintain the CWBS and CWBS dictionary.	
3.1.1.2.5.2.	The CWBS shall be used to measure progress throughout the contract.	
3.1.1.2.5.3.	The Contractor shall not change the CWBS without Government approval.	
3.1.1.2.6.	The Contractor shall provide the Integrated Master Schedule.	
3.1.1.2.7.	The Contractor shall manage Government Furnished Equipment.	
3.1.1.2.7.1.	The Contractor shall maintain a GFE database.	
3.1.1.2.7.2.	The Contractor shall provide GFE management procedures.	
3.1.1.2.7.3.	The Contractor shall identify GFE used in providing the NAIS.	
3.1.1.2.8.	The Contractor shall provide an Environmental Protection, Safety and Health Plan.	
3.1.1.2.8.1.	EPSH is defined as a multi-discipline area.	
3.1.1.2.8.2.	The Contractor shall manage and mitigate EPSH risks.	
3.1.1.2.8.3.	The EPSH Plan shall document processes for meeting EPSH laws.	

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3.1.1.2.8.4.	The Contractor shall comply with all EPSH laws.	
3.1.1.2.8.4.1.	The Contractor shall develop a Programmatic Environmental, Safety, and Occupational Health Evaluation.	
3.1.1.2.8.4.2.	The Contractor shall employ no class I ozone-depleting substances.	
3.1.1.2.8.4.3.	The EPSH Plan shall be consistent with the Programmatic Environmental Impact Statement.	
3.1.1.2.8.4.4.	The Contractor shall provide system safety and oversight procedures.	
3.1.1.2.8.4.5.	The Contractor shall document EPSH risk information.	
3.1.1.2.9.	The Contractor shall perform risk management.	
3.1.1.2.9.1.	The Contractor shall provide a Risk Management Plan.	
3.1.1.2.9.2.	The Contractor shall implement risk management procedures.	
3.1.1.2.9.3.	The Contractor shall maintain a Risk Database.	
3.1.1.2.9.4.	The Contractor shall designate a Risk Manager.	
3.1.1.2.9.5.	The Contractor shall provide an agenda and minutes for Risk Management Reviews.	
3.1.1.2.10.	The Contractor shall provide an Earned Value Management System.	
3.1.1.2.10.1.	The Contractor shall implement an EVMS.	
3.1.1.2.10.1.1.	The EVMS shall facilitate progress analysis and forecasting.	
3.1.1.2.10.1.2.	The Contractor shall use discrete earned value methods for work packages.	
3.1.1.2.10.1.3.	The Contractor shall track project liabilities.	
3.1.1.2.10.2.	The Contractor shall provide an EVMS Program Assurance of Conformity Document.	
3.1.1.2.10.3.	The Contractor shall conduct an Integrated Baseline Review.	
3.1.1.2.10.4.	The Contractor shall conduct EVMS baseline control.	
3.1.1.2.10.4.1.	The EVMS baseline is established upon KO acceptance of IBR.	
3.1.1.2.10.4.2.	The Contractor shall not perform EVMS baseline changes without approval.	
3.1.1.2.10.4.2.1.	The award of contract options constitute authorized EVMS baseline changes.	
3.1.1.2.10.4.2.2.	Contract modifications constitute authorized EVMS baseline changes.	
3.1.1.2.10.4.2.3.	Contract changes shall be incorporated within two reporting cycles.	
3.1.1.2.10.4.2.4.	The Contractor shall provide supporting documentation for all requests to change the EVMS baseline.	
3.1.1.2.10.5.	The Contractor shall provide Monthly Status Reports.	
3.1.1.2.10.5.1.	The Contractor shall deliver the MSR on the 10th business day of each month.	
3.1.1.2.10.5.2.	The MSR shall include a Progress Report.	
3.1.1.2.10.5.3.	The MSR shall include a Contract Performance Report.	
3.1.1.2.10.5.3.1.	The Performance Report shall include Variance Analysis.	
3.1.1.2.10.5.4.	The MSR shall include a Contract Funds Status Report.	
3.1.1.2.10.5.5.	The MSR shall include a GFE Status Report.	
3.1.1.2.11.	The Contractor shall conduct Project Management Reviews.	
3.1.1.2.11.1.	The Contractor shall present PM and risk management information at PMRs.	
3.1.1.2.11.2.	The Contractor shall coordinate PMRs with other reviews.	
3.1.1.2.11.3.	The Contractor shall provide access to an office and telecommunications services when PMRs are held at Contractor facilities.	
3.1.1.2.11.4.	The Contractor shall provide an agenda, briefing materials, and minutes for PMRs.	
3.1.1.2.12.	The Contractor shall conduct data management and provide an Integrated Product Development Environment.	
3.1.1.2.12.1.	The Contractor shall conduct data management.	
3.1.1.2.12.1.1.	The Contractor shall provide an IPDE Management Plan.	
3.1.1.2.12.1.2.	The Contractor shall ensure data and information security.	
3.1.1.2.12.1.3.	The Contractor shall deliver all data in its native file format.	

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3.1.1.2.12.1.4.	Source file formats shall be compatible with the Coast Guard Standard Workstation.	
3.1.1.2.12.1.5.	All data shall be delivered so that it can be read without modification.	
3.1.1.2.12.2.	The Contractor shall provide an IPDE.	
3.1.1.2.12.2.1.	All project data shall be available on the IPDE.	
3.1.1.2.12.2.2.	The Contractor shall provide the IPDE within 30 days after contract award.	
3.1.1.2.12.2.3.	The IPDE shall provide the listed capabilities.	
3.1.1.2.12.2.3.1.	The IPDE shall be available 24 hours a day, 7 days a week.	
3.1.1.2.12.2.3.2.	Access to the IPDE shall be restricted to authorized users.	
3.1.1.2.12.2.3.3.	The IPDE shall be internet accessible.	
3.1.1.2.12.2.3.4.	The IPDE shall include a process to exchange contract documents.	
3.1.1.2.12.2.3.5.	The IPDE shall have robust search functionality.	
3.1.1.2.12.2.3.6.	The IPDE shall include an archive library of all submittals made.	
3.1.1.2.12.2.3.7.	The IPDE shall include a calendar that reflects the IMS.	
3.1.1.2.12.2.3.8.	The IPDE shall provide desktop integration with Microsoft Office 2003.	
3.1.1.2.12.2.3.9.	The IPDE shall be accessible to a Government-provided GIS interface.	
3.1.1.2.12.2.3.9.1.	The GIS interface shall be able to search based on key metrics.	
3.1.1.2.12.2.3.9.2.	Government personnel shall be able to use queries without Contractor assistance.	
3.1.1.2.12.2.3.10.	The IPDE shall be made of COTS products to the maximum extent possible.	
3.1.1.2.12.2.3.11.	The IPDE shall be Section 508-compliant.	
3.1.1.2.12.2.4.	The IPDE Management Plan shall include a transition plan for transitioning the IPDE to a Government owned infrastructure.	
3.1.1.2.12.2.5.	The IPDE shall support a user population of 250 users.	
3.1.1.2.12.2.6.	The IPDE shall provide user interaction through MS Internet Explorer 6.0.	
3.1.1.2.12.2.7.	The IPDE shall have trouble ticket functionality.	
3.1.1.2.12.2.8.	The IPDE shall support multi-file downloads.	
3.1.1.2.12.2.9.	The Contractor shall deliver the complete IPDE to the Government at the end of the contract performance period.	
3.1.1.2.13.	The Contractor shall provide Project Resident Office support and services.	
3.1.1.2.13.1.	The Contractor shall establish a PRO.	
3.1.1.2.13.2.	The Contractor shall provide PRO documentation.	
3.1.1.2.13.3.	The Contractor shall provide PRO facilities and parking.	
3.1.1.2.13.4.	The Contractor shall meet listed general requirements for the PRO.	
3.1.1.2.13.5.	The Contractor shall install two private offices.	
3.1.1.2.13.6.	The Contractor shall provide six common offices.	
3.1.1.2.13.7.	The Contractor shall provide work areas.	
3.1.1.2.13.7.1.	The Contractor shall provide 250 square feet of work space.	
3.1.1.2.13.7.2.	The Contractor shall provide a copier and paper shredder.	
3.1.1.2.13.7.3.	The Contractor shall provide a fax machine.	
3.1.1.2.13.8.	The Contractor shall provide a conference room.	
3.1.1.2.13.9.	The Government will provide listed materials.	
3.1.1.2.13.10.	The Contractor shall provide the following listed services for the PRO.	
3.1.1.2.13.10.1.	The Contractor shall provide physical security.	
3.1.1.2.13.10.2.	The Contractor shall provide a temporary computer network.	
3.1.1.2.13.10.3.	The Contractor shall provide shipping and receiving services.	
3.1.1.2.13.10.4.	The Contractor shall maintain and support all facilities.	
3.1.1.2.14.	The Contractor shall provide subcontractor management services.	
3.1.1.2.14.1.	The Contractor shall ensure that subcontractors are qualified.	
3.1.1.2.14.2.	The Contractor shall invite the Government to participate in subcontractor reviews.	

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3.1.1.2.14.3.	The Contractor shall provide subcontractor cost and performance data.	
3.1.1.3.	The Contractor shall provide systems engineering services.	
3.1.1.3.1.	The Government will review the Contractor's systems engineering.	
3.1.1.3.2.	The Contractor shall perform systems engineering tasks to meet the PSPEC and SOW.	
3.1.1.3.3.	The Contractor shall provide a Systems Engineering Management Plan.	
3.1.1.3.4.	The Contractor shall perform trade studies.	
3.1.1.3.5.	The Contractor shall provide technology assessment, insertion and refreshment services.	
3.1.1.3.5.1.	The SEMP shall address the technology refreshment process.	
3.1.1.3.5.2.	The SDP shall include a technology refreshment catalog.	
3.1.1.3.6.	The Contractor shall provide configuration management services.	
3.1.1.3.6.1.	The Contractor shall establish a CM program.	
3.1.1.3.6.2.	The Contractor shall provide a CM Plan.	
3.1.1.3.6.3.	The Contractor shall incorporate Increment 1 components to its CM processes.	
3.1.1.3.6.4.	The Contractor shall establish a configuration identification process.	
3.1.1.3.6.5.	The Contractor shall conduct configuration status accounting.	
3.1.1.3.6.5.1.	The Contractor shall conduct CSA to capture configuration identification.	
3.1.1.3.6.5.2.	The Contractor shall record CSA tasks.	
3.1.1.3.6.5.3.	The CSA system shall be established before the Critical Design Review.	
3.1.1.3.6.5.4.	The Contractor shall deliver CSA Reports.	
3.1.1.3.6.5.5.	The Contractor shall conduct on-site CSA validation.	
3.1.1.3.6.5.6.	The CSA system shall be accessible through the IPDE.	
3.1.1.3.6.6.	The Contractor shall deliver configuration baselines.	
3.1.1.3.6.6.1.	The Functional Baseline shall be established upon approval of the System Requirements Specification.	
3.1.1.3.6.6.2.	The Allocated Baseline shall be established upon approval of the ABL section in the System Design Document.	
3.1.1.3.6.6.3.	The Development Baseline shall be established upon approval of all deliverables associated with the Critical Design Review.	
3.1.1.3.6.6.4.	The Product Baseline shall be established upon approval of all technical data package specifications and products.	
3.1.1.3.6.7.	The Contractor shall conduct configuration audits.	
3.1.1.3.6.7.1.	The Contractor shall provide a Functional and Physical Configuration Audit Plan.	
3.1.1.3.6.7.2.	The Contractor shall provide a Functional and Physical Configuration Audit Report.	
3.1.1.3.6.8.	The Contractor shall conduct configuration control.	
3.1.1.3.6.8.1.	The Contractor shall maintain configuration baselines throughout the performance period of the contract.	
3.1.1.3.6.8.2.	The Contractor shall submit Engineering Change Proposals.	
3.1.1.3.6.8.2.1.	The Contractor shall submit ECPs in response to Engineering Change Requests or on Contractor initiative.	
3.1.1.3.6.8.2.2.	Each ECP shall submit the information required by DI-CMAN-80639C.	
3.1.1.3.6.8.2.3.	The Contractor shall implement approved engineering changes.	
3.1.1.3.6.8.2.4.	The Contractor shall submit a notice of revision with each ECP.	
3.1.1.3.6.8.3.	The Contractor shall classify all changes as Class I or Class II changes.	
3.1.1.3.6.8.4.	The Contractor shall address Engineering Change Requests.	
3.1.1.3.6.8.4.1.	The Contractor shall develop ECPs in response to ECRs.	
3.1.1.3.6.8.4.2.	The Contractor shall track the status of ECRs.	
3.1.1.3.6.8.4.3.	The Contractor shall provide a process for review of ECRs.	

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3.1.1.3.6.8.4.4.	The ECR review process shall notify the next reviewer of the ECR.	
3.1.1.3.6.8.4.5.	The Contractor shall make comments to ECRs accessible via FSD website.	
3.1.1.3.6.8.5.	The Contractor may propose Requests for Deviation.	
3.1.1.3.7.	The Contractor shall develop the NAIS in compliance with security requirements in the SOW and PSPEC.	
3.1.1.3.7.1.	The Contractor shall provide an Information Assurance Plan.	
3.1.1.3.7.2.	The Contractor shall comply with FISMA.	
3.1.1.3.7.2.1.	The Contractor shall assist the Government in obtaining certification and accreditation.	
3.1.1.3.7.2.2.	The Contractor shall develop the NAIS to operate in a net-centric environment.	
3.1.1.3.7.2.3.	The Contractor shall provide supporting documentation for the C&A process.	
3.1.1.3.7.2.4.	The Contractor shall implement network information assurance controls.	
3.1.1.3.7.2.4.1.	The Contractor shall conduct reviews of implementation and enforcement of security requirements.	
3.1.1.3.7.2.4.2.	All services, hardware and software shall be compliant with listed standards.	
3.1.1.3.7.2.4.3.	Interconnections between DHS and non-DHS IT systems shall be established through controlled interfaces and via approved service providers.	
3.1.1.3.8.	The Contractor shall address Increment 1 to Increment 2 transition planning.	
3.1.1.3.8.1.	NAIS Increment 1 is operational.	
3.1.1.3.8.2.	The Contractor shall provide an I-1 to I-2 Operational Transition Plan.	
3.1.1.4.	The Contractor shall conduct detailed technical design.	
3.1.1.4.1.	The Contractor shall implement all required elements of the design process.	
3.1.1.4.2.	The Contractor shall provide a System Design Plan.	
3.1.1.4.3.	The SDP shall include a Software Development and Integration Plan.	
3.1.1.4.4.	The Contractor shall provide a System Requirements Specification.	
3.1.1.4.5.	The SRS shall include a Requirements Traceability Matrix.	
3.1.1.4.6.	The Contractor shall provide a System Design Document.	
3.1.1.4.7.	The Contractor shall conduct system modeling, simulation and analysis.	
3.1.1.4.7.1.	The Contractor shall provide the results of the analyses at design reviews.	
3.1.1.4.7.2.	The Contractor shall conduct an RF Propagation Analysis.	
3.1.1.4.7.3.	The Contractor shall demonstrate compliance with the Privacy Act.	
3.1.1.4.7.4.	The Contractor shall comply with Section 508.	
3.1.1.4.8.	The Contractor shall utilize a modular open systems and services oriented approach.	
3.1.1.4.8.1.	NAIS software and hardware shall be interoperable.	
3.1.1.4.8.2.	The Contractor shall provide a technology insertion methodology.	
3.1.1.4.8.3.	The Contractor shall demonstrate that system components with proprietary information are modular and replaceable.	
3.1.1.4.8.4.	The Contractor shall deliver all system components with full data rights.	
3.1.1.4.9.	The Contractor shall meet additional component design requirements.	
3.1.1.4.9.1.	The Contractor shall design PSS and LSS with multiple configurations.	
3.1.1.4.9.2.	The Contractor shall locate the centralized storage solution at OSC.	
3.1.1.4.9.3	The Contractor shall provide a Software Development Kit.	
3.1.1.4.9.4.	The Contractor shall design the NAIS to interface with other user interface applications.	
3.1.1.4.9.4.1	The Contractor shall de-couple the user interface from COTS products.	
3.1.1.4.9.4.2.	The Contractor shall provide a user interface for the SOC.	
3.1.1.4.9.4.3.	The Contractor shall provide a user interface for the SCC.	
3.1.1.4.9.4.4.	The Contractor shall provide the SOA infrastructure design.	
3.1.1.4.9.5.	The Contractor shall conduct AIS System Management.	

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3.1.1.4.9.5.1.	The SOC is expected to be located at NAVCEN.	
3.1.1.4.9.5.2.	The Contractor shall conduct an I-1 SOC Analysis.	
3.1.1.4.9.5.3.	The Contractor shall incorporate the system administration service capability design in the SDD.	
3.1.1.4.9.6.	The Contractor shall assist in preparing network connectivity agreements.	
3.1.1.4.9.7.	The Contractor shall address other design elements.	
3.1.1.4.9.7.1.	The Contractor shall provide an interface to integrate I-1 data.	
3.1.1.4.10.	The Contractor shall conduct software engineering.	
3.1.1.4.10.1.	The Contractor shall conduct software design.	
3.1.1.4.10.2.	The Contractor shall provide COTS software products.	
3.1.1.4.10.2.1.	The Contractor shall provide COTS software products for the EDC at OSC.	
3.1.1.4.10.2.2.	The Contractor shall provide COTS software products for the backup EDC.	
3.1.1.4.10.2.3.	The Contractor shall provide COTS software products for the SOC at NAVCEN.	
3.1.1.4.10.2.4.	The Contractor shall provide COTS software products for the backup SOC at C2CEN.	
3.1.1.4.10.2.5.	The Contractor shall provide COTS software products for the core capability at C2CEN.	
3.1.1.4.10.3.	The Contractor shall provide the System Product Specification.	
3.1.1.4.10.3.1.	The SPS shall identify the as-built design information.	
3.1.1.4.10.3.2.	The SPS shall identify all software licensing requirements.	
3.1.1.4.10.3.3.	The SPS shall include all developmental software source code.	
3.1.1.5.	The Contractor shall conduct logistics planning and design.	
3.1.1.5.1.	The Contractor shall comply with listed general logistics requirements.	
3.1.1.5.1.1.	The Contractor shall provide integrated logistics support.	
3.1.1.5.1.2.	The Contractor shall comply with listed specific logistics requirements.	
3.1.1.5.1.3.	The Contractor shall perform ILS planning with consideration of listed baseline assumptions.	
3.1.1.5.1.4.	The Contractor shall host quarterly ILS IPT meetings.	
3.1.1.5.1.5.	The Contractor shall use an iterative system engineering approach.	
3.1.1.5.1.6.	The Contractor shall provide ILS design information at design reviews.	
3.1.1.5.1.7.	The Contractor shall provide initial support.	
3.1.1.5.1.8.	The Contractor shall provide an Integrated Support Plan.	
3.1.1.5.2.	The Contractor shall conduct maintenance planning.	
3.1.1.5.2.1.	The ISP shall include a Maintenance Plan.	
3.1.1.5.2.2.	The Maintenance Plan shall include new equipment maintenance planning.	
3.1.1.5.2.3.	The Contractor shall provide an RMA analysis.	
3.1.1.5.2.4.	The Contractor shall conduct reliability centered maintenance.	
3.1.1.5.2.4.1.	The Contractor shall provide an RCM Maintenance Requirements Package.	
3.1.1.5.2.4.2.	The Contractor shall develop maintenance task procedures for O-Level maintenance requirements.	
3.1.1.5.2.4.3.	The Contractor shall develop Maintenance Procedure Cards.	
3.1.1.5.2.5.	The Contractor shall perform corrective maintenance.	
3.1.1.5.2.6.	The Contractor shall develop maintenance planning documentation.	
3.1.1.5.2.7.	The Contractor shall conduct maintenance task analysis.	
3.1.1.5.2.8.	The Contractor shall conduct supportability analysis in conjunction with SDR, PDR, and CDR.	
3.1.1.5.2.9.	The Contractor shall validate the information and procedures in the RCM.	
3.1.1.5.2.10.	The Contractor shall provide field support desk deliverables and services.	
3.1.1.5.2.10.1.	The Contractor shall establish a field support desk.	
3.1.1.5.2.10.2.	The FSD process shall comply with listed requirements.	

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3.1.1.5.2.10.2.1.	The Contractor shall provide an FSD website.	
3.1.1.5.2.10.2.2.	The Contractor shall respond to e-mail, phone and fax support requests.	
3.1.1.5.2.10.2.3.	The Contractor shall provide an FSD Report.	
3.1.1.5.2.11.	The Contractor shall implement a warranty administration program.	
3.1.1.5.2.11.1.	The Contractor shall conduct ILS in coordination with the warranty program.	
3.1.1.5.2.11.2.	The FSD Report shall include analyses of failures of items under warranty.	
3.1.1.5.2.11.3.	The Contractor shall provide a Warranty Book.	
3.1.1.5.2.11.4.	The Contractor will have an opportunity to inspect reported defects.	
3.1.1.5.2.11.5.	The Contractor shall correct the defects.	
3.1.1.5.2.11.6.	The FSD Report shall include a minor defects list.	
3.1.1.5.2.12.	The Contractor shall provide a Maintenance Transition Plan.	
3.1.1.5.3.	The Contractor shall conduct a manpower and personnel analysis.	
3.1.1.5.4.	The Contractor shall conduct supply support.	
3.1.1.5.4.1.	The Government conducts supply support using three major levels of support.	
3.1.1.5.4.2.	The ISP shall include a Supply Support Plan.	
3.1.1.5.4.2.1.	The Supply Support Plan shall include a Provisioning Program Plan.	
3.1.1.5.4.2.2.	The Contractor shall conduct provisioning in accordance with the PPP.	
3.1.1.5.4.2.3.	The Contractor shall include provisioning data in the LMI Summary.	
3.1.1.5.4.2.4.	The Supply Support Plan shall include Readiness-Based Sparing Recommendations.	
3.1.1.5.4.2.5.	The Supply Support Plan shall include a DMSMS Management Plan.	
3.1.1.5.4.2.6.	The Contractor shall establish a parts management program during the initial support period.	
3.1.1.5.5.	The Contractor shall provide technical data deliverables and services.	
3.1.1.5.5.1.	The Contractor shall provide technical manuals.	
3.1.1.5.5.2.	The Contractor shall provide all technical data resources required to operate, maintain, service and repair the NAIS.	
3.1.1.5.5.3.	The Contractor shall deliver technical data in electronic format.	
3.1.1.5.5.4.	The Contractor shall obtain and document the Government's data rights to all technical data.	
3.1.1.5.5.4.1.	The Contractor shall obtain for the Government a worldwide license for restricted computer software.	
3.1.1.5.5.4.2.	The Contractor shall obtain for the Government a worldwide license for copyrighted data.	
3.1.1.5.5.5.	The Contractor shall provide an Interactive Electronic Technical Manual.	
3.1.1.5.5.5.1.	The IETM shall be hosted via the FSD.	
3.1.1.5.5.5.2.	The Contractor shall provide source information for the IETM.	
3.1.1.5.5.5.3.	The IETM shall include the following listed information.	
3.1.1.5.5.5.3.1.	The IETM shall include general information and safety precautions.	
3.1.1.5.5.5.3.2.	The IETM shall include operating procedures.	
3.1.1.5.5.5.3.3.	The IETM shall include equipment descriptions.	
3.1.1.5.5.5.3.4.	The IETM shall include functional descriptions.	
3.1.1.5.5.5.3.5.	The IETM shall include planned maintenance.	
3.1.1.5.5.5.3.6.	The IETM shall include corrective maintenance.	
3.1.1.5.5.5.3.7.	The IETM shall include remove and replace procedures.	
3.1.1.5.5.5.3.8.	The IETM shall include test and special support equipment.	
3.1.1.5.5.5.3.9.	The IETM shall include configuration drawings and parts breakout data.	
3.1.1.5.5.5.4.	The IETM shall be in XML schema-based type II format.	
3.1.1.5.5.5.5.	The IETM shall be developed for all data types delivered via FSD website.	
3.1.1.5.5.6.	The Contractor shall provide product and as-built drawings and associated lists.	

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J.24 – REQUIREMENTS MATRIX TEMPLATE
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SOW Reference	SOW REQUIREMENT	Supporting Proposal Section
3.1.1.5.5.6.1.	The Contractor shall provide drawings in Autocad or Visio format.	
3.1.1.5.5.6.2.	Drawings shall be comprised of printable depictions of all NAIS components in their actual location and schematic diagrams as required to depict functional interconnections between components.	
3.1.1.5.5.6.3.	The Contractor shall identify all components' salient features.	
3.1.1.5.5.6.4.	Engineering drawings shall be prepared in accordance with listed ASME specifications.	
3.1.1.5.5.7.	The Contractor shall conduct technical data validation.	
3.1.1.5.5.7.1.	The Contractor shall validate the adequacy and accuracy of all technical data.	
3.1.1.5.5.7.1.1.	Technical data validation shall include use of the physical performance method.	
3.1.1.5.5.7.1.2.	Technical data validation shall include use of the walk-through simulation method.	
3.1.1.5.5.7.1.3.	Technical data validation shall include use of the review/analysis method.	
3.1.1.5.5.8.	The Contractor shall transition the IETM to the Government.	
3.1.1.5.5.9.	The IETM shall include a Technical Data Index.	
3.1.1.5.5.10.	The Contractor shall conduct technical data maintenance.	
3.1.1.5.5.10.1.	The Contractor shall deploy a web-based content maintenance tool.	
3.1.1.5.5.10.2.	The Contractor shall maintain technical data throughout the initial support period.	
3.1.1.5.5.10.3.	Configuration changes shall be made in accordance with the configuration change process.	
3.1.1.5.5.10.4.	The Contractor shall retain a history of all technical data changes.	
3.1.1.5.5.10.5.	The Contractor shall post approved technical data change notifications to the IETM.	
3.1.1.5.6.	The Contractor shall address test and support equipment.	
3.1.1.5.6.1.	The ISP shall identify support and test equipment.	
3.1.1.5.6.2.	The Contractor shall identify support and test equipment in accordance with listed selection criteria.	
3.1.1.5.6.3.	The Contractor shall research existing USCG support equipment.	
3.1.1.5.7.	The Contractor shall provide training deliverables and services.	
3.1.1.5.7.1.	The Contractor shall establish a training/performance intervention program.	
3.1.1.5.7.2.	The Contractor shall provide a Training/Performance Intervention Plan.	
3.1.1.5.7.3.	The Contractor shall provide training program materials and tools.	
3.1.1.5.8.	The ISP shall identify computer resources necessary to support the NAIS.	
3.1.1.5.9.	The ISP shall identify real property assets necessary to support the NAIS.	
3.1.1.5.10.	The Contractor shall address packaging, handling, storage and transportation requirements.	
3.1.1.5.11.	The ISP shall include an Equipment Integrated Logistics Support Plan.	
3.1.1.5.12.	The Contractor shall address logistics management information.	
3.1.1.5.12.1.	The Contractor shall provide a Logistics Management Information Summary.	
3.1.1.5.12.2.	The LMI Summary shall be a hierarchical configuration tree containing all configuration items of the NAIS.	
3.1.1.5.12.3.	The Contractor shall identify a single point of contact for the LMI Summary.	
3.1.1.5.13.	The Contractor shall transfer to the Government all life-cycle support.	
3.1.1.6.	The Contractor shall conduct core system design reviews, development and integration.	
3.1.1.6.1.	The Contractor shall conduct design reviews.	
3.1.1.6.1.1.	The Contractor shall execute listed design reviews as part of the system engineering process.	
3.1.1.6.1.2.	The Contractor shall conduct a System Design Review.	
3.1.1.6.1.2.1	The SDR shall occur within 150 days after contract award.	

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SOW Reference	SOW REQUIREMENT	Supporting Proposal Section
3.1.1.6.1.2.2	At the SDR, the Contractor shall present updates to the project management, systems engineering, and logistics deliverables.	
3.1.1.6.1.2.3	The Contractor shall provide SDR meeting deliverables.	
3.1.1.6.1.2.4	The Contractor shall incorporate written Government feedback from the SDR into the design and planning elements.	
3.1.1.6.1.3.	The Contractor shall conduct a Preliminary Design Review.	
3.1.1.6.1.3.1.	The Contractor shall conduct a PDR after Government approval of the SDR.	
3.1.1.6.1.3.2.	The Contractor shall determine what hardware and software items constitute configuration items to address at each PDR.	
3.1.1.6.1.3.3.	At the PDR, the Contractor shall present updates to the project management, systems engineering, and logistics deliverables.	
3.1.1.6.1.3.4.	The Contractor shall provide PDR meeting deliverables.	
3.1.1.6.1.3.5.	The Contractor shall incorporate written Government feedback from the PDR into the design and planning elements.	
3.1.1.6.1.4.	The Contractor shall conduct a Critical Design Review.	
3.1.1.6.1.4.1.	The Contractor shall conduct a CDR after Government approval of the PDR.	
3.1.1.6.1.4.2.	The Contractor may conduct a CDR for each group of configuration items.	
3.1.1.6.1.4.3.	At the CDR, the Contractor shall present updates to the project management, systems engineering, and logistics deliverables.	
3.1.1.6.1.4.4.	The Contractor shall provide CDR meeting deliverables.	
3.1.1.6.1.4.5.	The Contractor shall incorporate written Government feedback from the CDR into the design and planning elements.	
3.1.1.6.1.5.	The Contractor shall conduct a Test Readiness Review.	
3.1.1.6.1.5.1.	The Contractor shall conduct a TRR after Government approval of the CDR.	
3.1.1.6.1.5.2.	The Contractor may conduct a TRR for each group of configuration items.	
3.1.1.6.1.5.3.	At the TRR, the Contractor shall present the Test Plan and Procedures and Functional and Physical Configuration Audit Plan.	
3.1.1.6.1.5.4.	The Contractor shall provide TRR meeting deliverables.	
3.1.1.6.1.5.5.	The Contractor shall incorporate written Government feedback from the TRR into the design and planning elements.	
3.1.1.6.1.6.	The Contractor shall conduct an SVR.	
3.1.1.6.1.6.1.	The Contractor shall conduct an SVR after Government approval of the TRR.	
3.1.1.6.1.6.2.	The Contractor may conduct an SVR for each group of configuration items.	
3.1.1.6.1.6.3.	At the SVR, the Contractor shall present the Functional and Physical Configuration Audit Report and present updates to the SDD.	
3.1.1.6.1.6.4.	The Contractor shall provide SVR meeting deliverables.	
3.1.1.6.1.6.5.	The Contractor shall incorporate written Government feedback from the SVR into finalizing core capability implementation.	
3.1.1.6.2.	The Contractor shall conduct system development and integration.	
3.1.1.6.2.1.	The Contractor shall integrate all subsystems, components and services.	
3.1.1.6.2.2.	The SDP shall include a system/subsystem integration plan.	
3.1.1.6.2.3.	The Contractor shall define hardware and software interface requirements.	
3.1.1.6.2.4.	The Contractor shall correct interface problems.	
3.1.1.6.2.5.	The Contractor shall produce interface control documents and service level agreements.	
3.1.1.6.2.5.1.	The Contractor shall provide interface control documents.	
3.1.1.6.2.5.2.	The Contractor shall develop service level agreements.	
3.1.1.6.2.5.3.	ICDs and SLAs shall conform to listed requirements.	
3.1.1.7.	The Contractor shall conduct core system implementation.	
3.1.1.7.1.	The Contractor shall produce the core system in accordance with the SDD and I-1 to I-2 Operational Transition Plan.	
3.1.1.7.1.1.	Core System Implementation shall include the EDC.	

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3.1.1.7.1.2.	Core System Implementation shall include the SOC.	
3.1.1.7.1.3.	Core System Implementation shall include a single PSS in Delaware Bay.	
3.1.1.7.1.4.	Core System Implementation shall include two baseline PSSs at C2CEN.	
3.1.1.7.1.5.	Core System Implementation shall include HSI and LSS.	
3.1.1.7.1.6.	Core System Implementation shall include incorporation of I-1.	
3.1.1.7.1.7.	Core System Implementation shall include network functionality.	
3.1.1.7.2.	The Contractor shall provide core system as-built documentation.	
3.1.1.8.	The Contractor shall conduct quality assurance, test and evaluation.	
3.1.1.8.1.	The Contractor shall meet quality standards and practices.	
3.1.1.8.1.1.	The Contractor shall comply with ISO 9000.	
3.1.1.8.1.2.	The Contractor shall establish QA processes and procedures.	
3.1.1.8.1.3.	The Contractor shall have an ISO 9001-2000 registration.	
3.1.1.8.1.4.	The Contractor shall provide a Quality Assurance Plan.	
3.1.1.8.2.	The Contractor shall perform testing and provide verification deliverables and services.	
3.1.1.8.2.1.	The Contractor shall provide a Master Test Plan.	
3.1.1.8.2.1.1.	The Contractor shall implement the MTP.	
3.1.1.8.2.1.2.	The MTP shall include factory qualification testing.	
3.1.1.8.2.1.3.	The Contractor shall demonstrate built-in test and built-in test equipment.	
3.1.1.8.2.1.4.	The Contractor shall demonstrate operation and maintenance procedures.	
3.1.1.8.2.2.	The SRS shall include a Requirements Verification Matrix.	
3.1.1.8.2.3.	The Contractor shall produce developmental test and evaluation deliverables and services.	
3.1.1.8.2.3.1.	The Contractor shall provide the test plan and procedures.	
3.1.1.8.2.3.2.	The Contractor shall perform validation and verification.	
3.1.1.8.2.3.3.	The Contractor shall conduct testing.	
3.1.1.8.2.3.3.1.	The Contractor shall conduct testing to demonstrate compliance with the PSPEC.	
3.1.1.8.2.3.3.2.	The Contractor shall conduct DT&E activities in the IOC sectors.	
3.1.1.8.2.3.3.3.	The Contractor shall include provisions for outfitting a Government provided test vessel for the execution of transmit and receive coverage, reporting rate, and latency verification.	
3.1.1.8.2.3.3.4.	The Contractor shall coordinate with and support the Government provided asset to execute the required testing.	
3.1.1.8.2.3.3.5.	DT&E activities shall verify system performance.	
3.1.1.8.2.3.3.6.	The Contractor shall conduct Integrated Factory Acceptance Testing.	
3.1.1.8.2.3.3.7.	The Contractor shall conduct a system pretest.	
3.1.1.8.2.3.4.	The Contractor shall provide a DT&E test report.	
3.1.1.8.2.4.	The Contractor shall conduct IOC System Acceptance Test and Evaluation.	
3.1.1.8.2.4.1.	The IOC System Acceptance Test and Evaluation shall demonstrate meeting all required technical and operational parameters.	
3.1.1.8.2.4.2.	The Contractor shall provide an IOC System Acceptance Test and Evaluation Report.	
3.1.1.8.2.5.	The Contractor shall assist the Government to oversee all verification and validation activities.	
3.1.1.8.2.5.1.	The Contractor shall maintain records of all inspections and tests.	
3.1.1.8.2.6.	The Government reserves the right to utilize an Independent Verification and Validation agent to verify the system is ready for OT&E.	
3.1.1.9.	The Contractor shall provide support services for Government-led testing for IOC.	
3.1.1.9.1.	The Contractor shall support operational test and evaluation.	
3.1.1.9.1.1.	The Contractor shall provide assistance to Government OT&E.	

SOW Reference	SOW REQUIREMENT	Supporting Proposal Section
3.1.1.9.1.2.	Major OT&E objectives are listed.	
3.1.1.9.1.3.	Additional OT&E objectives are listed.	
3.1.1.10.	The Contractor shall charge for travel in a manner consistent with Joint Federal Travel Regulations.	
3.1.2.	The Contractor shall establish IOC.	
3.1.2.1.	IOC will be achieved upon successful completion and documentation of Government-led OT&E.	
3.1.2.2.	The Contractor shall deliver Sector Delaware Bay.	
3.1.2.2.1.	The Contractor shall provide sector survey and coverage design deliverables and services.	
3.1.2.2.1.1.	The Contractor shall collaborate with the Government to select PSS sites.	
3.1.2.2.1.2.	The Contractor shall provide a PSS Site Identification and Selection Plan.	
3.1.2.2.1.3.	The Contractor shall participate in PSS Site Selection IPTs.	
3.1.2.2.1.3.1.	The Contractor shall provide Meeting 1 – Sector Planning Kickoff Deliverables.	
3.1.2.2.1.3.2.	The Contractor shall provide the PSS Site Selection Desktop Analysis Report.	
3.1.2.2.1.3.3.	The Contractor shall provide Meeting 2 – Desktop Analysis and Pre-Screen Survey Candidate PSS Site Review Deliverables.	
3.1.2.2.1.3.4.	The Contractor shall provide the Pre-Screen Survey and Proposed PSS Site Rankings Report.	
3.1.2.2.1.3.5.	The Contractor shall provide Meeting 3 – Post-Pre-Screen Survey Review Deliverables.	
3.1.2.2.1.3.6.	The Contractor shall provide Post-Meeting 3 Documentation.	
3.1.2.2.1.3.7.	The Contractor shall provide Meeting 4 – Pre-Detailed PSS Site Survey Review Deliverables.	
3.1.2.2.1.3.8.	The Contractor shall provide the Detailed PSS Site Survey Report.	
3.1.2.2.1.3.9.	The Contractor shall provide Meeting 5 – Post-Detailed PSS Site Survey Review Deliverables.	
3.1.2.2.1.3.10.	The Contractor shall provide Post-Meeting 5 Documentation.	
3.1.2.2.1.3.11.	The Contractor shall provide information for new builds.	
3.1.2.2.1.3.11.1	New tower construction requires a collaborative effort between Contractor and Government.	
3.1.2.2.1.3.11.2.	The Contractor shall determine what types of PSS sites are available for new construction.	
3.1.2.2.1.3.11.3.	The Contractor shall provide new tower documentation.	
3.1.2.2.1.3.12.	The Contractor shall provide Meeting 6 – Final Site Selection Review Deliverables.	
3.1.2.2.1.3.13.	The Contractor shall provide the Sector PSS Site Selection Report.	
3.1.2.2.2.	The Contractor shall provide the PSS and SCC Site Specific Design.	
3.1.2.2.2.1.	The PSS and SCC Site Specific Design shall be delivered within 30 days after the site is approved by the Government.	
3.1.2.2.2.2.	The Contractor shall recommend tower design and height.	
3.1.2.2.2.3.	The PSS and SCC Site Specific Design shall include hardware and software installation design details.	
3.1.2.2.3.	The Contractor shall acquire, configure, test and ship site equipment.	
3.1.2.2.3.1.	The Contractor shall procure equipment for SCCs or other LSS locations.	
3.1.2.2.3.2.	The Contractor shall procure equipment for PSSs at leased or new build sites not located with existing equipment.	
3.1.2.2.3.3.	The Contractor shall procure equipment for PSSs at sites located with existing equipment.	
3.1.2.2.4.	The Contractor shall perform PSS site construction and modifications.	
3.1.2.2.4.1.	The Contractor shall schedule and execute PSS construction and	

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	modification.	
3.1.2.2.4.2.	The Contractor shall coordinate equipment installation with the Government.	
3.1.2.2.4.3.	The Contractor shall supervise the installation teams.	
3.1.2.2.4.4.	The Contractor shall comply with safety and health requirements.	
3.1.2.2.4.5.	The Contractor shall comply with local, state and federal building codes.	
3.1.2.2.4.6.	The Contractor shall conform to the EPSH Plan.	
3.1.2.2.4.7.	The Contractor shall schedule and execute modifications to existing facilities.	
3.1.2.2.4.8.	The Contractor shall construct and install new towers and shelters.	
3.1.2.2.5.	The Contractor shall perform equipment installation.	
3.1.2.2.5.1.	The Contractor shall perform equipment installation at SCCs.	
3.1.2.2.5.2.	The Contractor shall perform equipment installation for PSSs at leased or new build sites not located with existing USCG equipment.	
3.1.2.2.5.3.	The Contractor shall perform equipment installation for PSSs at sites located with existing USCG equipment.	
3.1.2.2.6.	The Contractor shall provide Sector PSS Site Installation As-Built Documentation.	
3.1.2.2.7.	The Contractor shall charge for travel in a manner consistent with Joint Federal Travel Regulations.	
3.1.2.3.	The Contractor shall deliver Sector Hampton Roads.	
3.1.2.4.	The Contractor shall deliver Sector Mobile.	
3.1.3.	The Contractor shall provide sector survey, coverage design, and equipment acquisition for establishing full operational capability.	
3.1.3.1.	The Contractor shall provide support for establishing FOC.	
3.1.3.1.1.	The Contractor shall work collaboratively with the Phase II contract winner.	
3.1.3.1.2.	The Contractor shall provide project management and systems engineering services in support of establishing FOC.	
3.1.3.1.2.1.	The Contractor shall provide support services for Government-led testing in support of establishing FOC.	
3.1.3.1.2.2.	The Contractor shall charge for travel in a manner consistent with Joint Federal Travel Regulations.	
3.1.3.2.	The Contractor shall provide initial logistics support deliverables and services.	
3.1.3.2.1.	The Contractor shall provide field support desk operations and support.	
3.1.3.2.2.	The Contractor shall provide initial preventative maintenance and warranty administration.	
3.1.3.2.3.	The Contractor shall provide initial corrective maintenance.	
3.1.3.2.4.	The Contractor shall provide initial spares.	
3.1.3.2.5.	The Contractor shall provide training.	
3.1.3.2.6.	The Contractor shall provide technical data and IETM maintenance and transition.	
3.1.3.2.7.	The Contractor shall charge for travel in a manner consistent with Joint Federal Travel Regulations.	
3.1.3.3.	The Contractor shall acquire, configure, test and ship site equipment.	
3.1.3.3.1.	The Contractor shall provide equipment for SCCs or other LSS locations.	
3.1.3.3.2.	The Contractor shall provide equipment for PSSs at leased or new build sites not located with existing USCG equipment.	
3.1.3.3.3.	The Contractor shall provide equipment for PSSs at sites located with existing USCG equipment.	
3.1.3.4.	The Contractor shall deliver Sector Baltimore.	
3.1.3.4.1.	The Contractor shall provide sector survey and coverage design deliverables and services.	
3.1.3.4.1.1.	The Contractor shall adhere to the approved PSS Site Identification and	

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	Selection Plan.	
3.1.3.4.1.2.	The Contractor shall participate in PSS Site Selection IPTs.	
3.1.3.4.1.2.1.	The Contractor shall provide Meeting 1 – Sector Planning Kickoff Deliverables.	
3.1.3.4.1.2.2.	The Contractor shall provide the PSS Site Selection Desktop Analysis Report.	
3.1.3.4.1.2.3.	The Contractor shall provide Meeting 2 – Desktop Analysis and Pre-Screen Survey Candidate PSS Site Review Deliverables.	
3.1.3.4.1.2.4.	The Contractor shall provide the Pre-Screen Survey and Proposed PSS Site Rankings Report.	
3.1.3.4.1.2.5.	The Contractor shall provide Meeting 3 – Post-Pre-Screen Survey Review Deliverables.	
3.1.3.4.1.2.6.	The Contractor shall provide Post-Meeting 3 Documentation.	
3.1.3.4.1.2.7.	The Contractor shall provide Meeting 4 – Pre-Detailed PSS Site Survey Review Deliverables.	
3.1.3.4.1.2.8.	The Contractor shall provide the Detailed PSS Site Survey Report.	
3.1.3.4.1.2.9.	The Contractor shall provide Meeting 5 – Post-Detailed PSS Site Survey Review Deliverables.	
3.1.3.4.1.2.10.	The Contractor shall provide Post-Meeting 5 Documentation.	
3.1.3.4.1.2.11.	The Contractor shall provide information for new builds.	
3.1.3.4.1.2.11.1.	New tower construction requires a collaborative effort between Contractor and Government.	
3.1.3.4.1.2.11.2.	The Contractor shall determine what types of PSS sites are available for new construction.	
3.1.3.4.1.2.11.3.	The Contractor shall provide new tower documentation.	
3.1.3.4.1.2.12.	The Contractor shall provide Meeting 6 – Final Site Selection Review Deliverables.	
3.1.3.4.1.2.13.	The Contractor shall provide the Sector PSS Site Selection Report.	
3.1.3.4.2.	The Contractor shall charge for travel in a manner consistent with Joint Federal Travel Regulations.	
3.1.3.5.	The Contractor shall deliver Sector Jacksonville.	
3.1.3.6.	The Contractor shall deliver Sector Long Island.	
3.1.3.7.	The Contractor shall deliver Sector New York.	
3.1.3.8.	The Contractor shall deliver Sector St. Petersburg.	
3.1.3.9.	The Contractor shall deliver Sector Portland.	
3.1.3.10.	The Contractor shall deliver Sector Seattle.	
3.1.3.11.	The Contractor shall deliver Sector Miami.	
3.1.3.12.	The Contractor shall deliver Sector Key West.	
3.1.3.13.	The Contractor shall deliver Sector Corpus Christi.	
3.1.3.14.	The Contractor shall deliver Sector Houston-Galveston.	
3.1.3.15.	The Contractor shall deliver Sector New Orleans.	
3.1.3.16.	The Contractor shall deliver Sector Boston.	
3.1.3.17.	The Contractor shall deliver Sector Southeastern New England.	
3.1.3.18.	The Contractor shall deliver Sector Northern New England.	
3.1.3.19.	The Contractor shall deliver Sector San Diego.	
3.1.3.20.	The Contractor shall deliver Sector Los Angeles-Long Beach.	
3.1.3.21.	The Contractor shall deliver Sector San Francisco.	
3.1.3.22.	The Contractor shall deliver Sector North Carolina.	
3.1.3.23.	The Contractor shall deliver Sector Charleston.	
3.1.3.24.	The Contractor shall deliver Sector Lake Michigan.	
3.1.3.25.	The Contractor shall deliver Sector Sault Ste. Marie.	
3.1.3.26.	The Contractor shall deliver Sector Detroit.	
3.1.3.27.	The Contractor shall deliver Sector Buffalo.	

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SOW Reference	SOW REQUIREMENT	Supporting Proposal Section
3.1.3.28.	The Contractor shall deliver Sector Anchorage.	
3.1.3.29.	The Contractor shall deliver Sector Juneau.	
3.1.3.30.	The Contractor shall deliver Sector San Juan.	
3.1.3.31.	The Contractor shall deliver Sector Honolulu.	
3.1.3.32.	The Contractor shall deliver Sector Guam.	
3.1.3.33.	The Contractor shall deliver Sector Upper Mississippi River.	
3.1.3.34.	The Contractor shall deliver Sector Ohio Valley.	
3.1.3.35.	The Contractor shall deliver Sector Lower Mississippi River.	
3.1.3.36.	The Contractor shall deliver Sector Mobile (Western Rivers Locations).	

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PSPEC Ref.	PSPEC REQUIREMENT ABSTRACT	Supporting Proposal Section
3.1.1	The NAIS solution shall integrate with NAVCEN	
3.1.2	The NAIS solution shall integrate with the Enterprise Data Center	
3.1.3	The NAIS solution shall integrate with DHS OneNet & CGDN+	
3.1.4	The NAIS solution shall integrate with the Sector Command Centers	
3.1.5	The NAIS solution shall utilize approved GIS components	
3.1.6	The NAIS solution shall adhere to the HLS EA and TRM	
3.1.7	The NAIS solution will integrate with the USCG ESB comply with USCG SOA	
3.2.0.0-1	The system shall be designed for a 15 year life-cycle	
3.2.0.0-2	The NAIS system shall not degrade the performance of other systems	
3.2.1.0-1	The NAIS shall be designed using SOA approaches	
3.2.1.0-2	The application architecture of NAIS shall align with the AA structure	
3.2.1.0-3	The software processes of the Components shall be portable	
3.2.1.0-4	The system shall expose software application interfaces	
3.2.1.0-5	The system design shall assume that a service registry will be made available by the Government	
3.2.1.0-6	The application interfaces shall be based on international standards	
3.2.1.0-7	The application interfaces shall remain stable	
3.2.2.0-1	Facilities shall be designed for a 30-year service life	
3.2.2.0-2	Facilities construction shall be compliance with environmental standards	
3.2.2.0-3	Facilities construction shall comply with the applicable federal, state, and local laws and regulations	
3.2.2.0-4	New equipment shelters shall be of concrete construction	
3.2.2.0-5	A monolithic design for new construction equipment shelters shall be used where practical	
3.2.2.0-6	Tilt-up shelter construction shall be used in locations where use of a monolithic shelter is impractical	
3.2.2.0-7	The exterior finish of new construction equipment shelters shall be resilient	
3.2.2.0-8	New facilities or modifications to existing USCG facilities shall conform to COMDTINST 11000.11 (series) Chapter 10	
3.2.2.0-9	NAIS shall be in compliance with applicable areas of COMDTINST M2400.1G.	
3.2.2.0-10	New towers or modifications to existing towers shall conform to applicable standards	
3.2.2.0-11	New facilities or modifications to existing facilities shall conform to applicable standards.	
3.2.2.0-12	Aluminum conductors shall be prohibited	
3.2.2.0-13	Facilities shall conform to NFPA 75	
3.2.2.0-14	Halon fire suppression systems shall not be used	
3.2.2.0-15	Asbestos shall not be used at NAIS facilities	
3.2.2.0-16	Chlorofluorocarbons shall not be used at NAIS facilities	
3.2.2.0-17	Facilities shall accept commercial power	
3.2.2.0-18	Facilities shall supplement utility power as necessary	
3.2.2.0-19	NAIS facilities shall have a UPS	
3.2.2.0-20	NAIS shall comply with OSHA regulations	
3.2.2.0-21	NAIS shall comply with OET Bulletin 65 regulations	
3.2.2.0-22	NAIS shall comply with all applicable environmental laws	
3.2.2.0-23	The system shall comply with TIA-569-B	
3.2.2.0-24	The system shall comply with TIA/EIA-568-B	
3.2.2.0-25	The NAIS system shall monitor, report, and log the physical status of	

PSPEC Ref.	PSPEC REQUIREMENT ABSTRACT	Supporting Proposal Section
	system facilities	
3.2.3.0-1	NAIS shelters shall be adequately conditioned	
3.2.3.0-2	Environmentally sensitive equipment shall be housed in appropriate climate-controlled facilities	
3.2.3.0-3	The system shall be operable and survivable within established parameters	
3.2.4.0-1	The system shall incorporate data networking components that implement NIST IA controls	
3.2.4.0-2	The system shall implement FIPS 140-2 and 197 for data communications encryption	
3.2.4.0-3	The system shall be designed such that encryption and decryption of AIS messages is done externally to the system	
3.2.4.0-4	The system shall not allow the alteration of AIS messages received by NAIS receivers	
3.2.5.0-1	The system shall be able to interoperate and share data with both classified and unclassified systems	
3.2.5.0-2	The system shall share data with classified systems through a Cross Domain Solution (CDS) or Multi-Level Security (MLS) solution	
3.2.5.0-3	The system shall deliver data in a manner than can be accepted by the Government-provided CDS or MLS solution	
3.2.5.0-4	The system shall restrict access to system data and functionality to authorized users and operators	
3.2.5.0-5	The system shall incorporate logical separation and access protection to protect the system from unauthorized use	
3.2.5.0-6	The system shall incorporate logical separation and access protection controls between various connected organizations and entities	
3.2.5.0-7	The system shall have the capability to monitor network activity	
3.2.5.0-8	All network hardware shall be IPv6 compatible without modification	
3.2.6.0-1	The system and its Components and services shall scale to accommodate the performance thresholds as specified	
3.2.6.0-2	System growth shall not degrade performance	
3.2.6.0-3	Other system Components shall be able to scale to meet the service needs dependencies of the Components	
3.2.7.0-1	The system shall operate 24 hours a day, 7 days a week	
3.2.7.0-2	For each SCC, the system shall achieve a monthly operational availability (A_O) of ≥ 0.96	
3.2.7.0-3	The Contractor shall assume an A_O of ≥ 0.999 for the CGDN+ and OneNET networks	
3.2.7.0-4	For the purposes of system design, the Contractor shall assume an AO of 99.5% for R21 equipment	
3.2.7.0-5	The A_O for each critical function of each sector shall be calculated on a monthly basis	
3.3.1.0-1	Individual PSSs shall comply with the NTIA Manual	
3.3.2.0-1	The PSSs shall provide the capability described in IALA recommendation A-124, Part 6.6	
3.3.2.0-2	PSSs shall have the capability to store AIS messages when network connectivity is lost	
3.3.2.0-3	PSSs shall be able to store and forward at least two weeks of AIS messages received over a fully utilized VDL	
3.3.2.0-4	The system shall provide metadata for each AIS message transmitted	
3.3.2.0-5	The system shall provide and store metadata for all messages received	
3.3.2.0-6	Each base station shall meet the minimum requirements in IEC 62320-1, IEC 61162-1, and NMEA 0183 V3.01	

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3.3.2.0-7	The base station shall provide sensitivity of at least -115dBm	
3.3.2.0-8	The RF system output power shall be configurable to at least 100W	
3.3.2.0-9	Base stations shall be capable of receiving and transmitting AIS messages that contain encrypted information	
3.3.3.0-1	The system shall provide at least the minimum transmit and receive performance provided	
3.3.3.0-2	The system shall provide transmit and receive coverage in the Ports and Other Specified Areas	
3.3.3.0-3	The system shall provide transmit and receive coverage in Inland Navigable Waterways	
3.3.3.0-4	The system shall provide transmit and receive coverage in the coverage exception areas	
3.3.4.0-1	Contractor-proposed testing methodologies shall comply with prescribed configuration and testing requirements	
3.3.4.0-2	Coverage verification tests shall assume the listed configurations for mobile AIS stations	
3.3.4.0-3	Coverage verification tests shall assume watercraft-based mobile AIS stations	
3.3.4.0-4	The propagation analysis and coverage plots for proposed NAIS sites shall be conducted using proven methodologies and standards	
3.3.4.0-5	The results of coverage verification shall prove the validity of the Contractor's standards	
3.3.4.0-6	Testing methodologies shall account for IMO NAV 53/INF.12	
3.4.1.0-1	The LSS shall provide the capability described in IALA A-124 Part IV	
3.4.1.0-2	The system shall be capable of providing JTA-standard and registered tags	
3.4.1.0-3	The system shall be able to provide AIS messages in parsed and native format	
3.4.1.0-4	The system shall automatically detect when static ship and voyage information changes	
3.4.1.0-5	The system shall allow operators to transmit any standard AIS message	
3.4.1.0-6	The system shall be capable of aggregating data	
3.4.1.0-7	The system shall allow received AIS messages to be rebroadcast	
3.4.1.0-8	The system shall be able to filter and pass AIS messages based on any combination of message metadata attributes and values	
3.4.1.0-9	The system shall be able to filter and pass AIS messages based on any combination of attributes and values within messages	
3.4.1.0-10	The system shall provide capability to configure the rate at which AIS messages are passed	
3.5.1.0-1	The system shall provide ASM functionality that meets the requirements of IALA A-124	
3.5.1.0-2	The system shall record which users acknowledge AIS messages	
3.5.1.0-3	The system shall support a configurable deconfliction process	
3.5.1.0-4	ASM services shall be discoverable via the ESB while adhering to the access privilege restrictions outlined	
3.5.2.1.0-1	Operators shall be able to receive and display the contents of the base station output sentences	
3.5.2.1.0-2	Operators shall be able to configure the parameters and thresholds within the ADS, FSR, and VSI messages	
3.5.2.1.0-3	Operators shall be able to request a VDL monitoring report.	
3.5.2.1.0-4	Operators shall be able to select the base stations which provide VDL monitoring reports	
3.5.2.1.0-5	The system shall provide functionality to support the provided VDL	

PSPEC Ref.	PSPEC REQUIREMENT ABSTRACT	Supporting Proposal Section
	monitoring use cases	
3.5.2.2.0-1	The operator shall be able to manage the VDL by transmitting management messages	
3.5.2.2.0-2	The system shall provide functionality to support the VDL management use cases provided	
3.5.3.0-1	The system shall provide centralized performance management capabilities	
3.5.3.0-2	The system shall be able to provide centralized system administration to troubleshoot	
3.5.3.0-3	The system shall generate user-defined status and performance reports	
3.5.3.0-4	The system shall be capable of performing maintenance on system components	
3.5.3.0-5	The system shall notify its operators to physical threats	
3.5.3.0-6	The system shall provide, at a minimum, user administration, system site management, data source management, data client management	
3.5.3.0-7	The system shall provide the capability to manage the access privileges	
3.5.3.0-8	The system shall record all system configuration, maintenance, and administration actions	
3.5.3.0-9	The system shall be able to log the provided performance metrics	
3.6.1.0-1	The system shall transfer AIS messages from the PSS to the appropriate SCC within one second	
3.6.1.0-2	All AIS messages delivered from the PSS to storage and enterprise services shall have latency not to exceed five seconds	
3.6.2.0-1	Access to NAIS and its network resources shall be managed through the USCG's network directory service	
3.6.2.0-2	The system shall alert system administrators of any attempts to gain unauthorized access	
3.7.1.0-1	The system shall store all NAIS data received, created, modified, or transmitted by the system for at least 3 years	
3.7.1.0-2	The system shall respond to data query requests within 10 seconds of receiving requests for NAIS data that is less than 30 days old	
3.7.1.0-3	The system shall respond to data query requests within 60 seconds of receiving requests for NAIS data that is more than 30 days old	
3.7.1.0-4	The system shall, at a minimum, meet the operational requirements as set forth in the following use cases	
3.7.2.0-1	AIS messages and metadata fields shall be parsed into tagged fields	
3.7.2.0-2	The system shall store the most recent 3 year's of NAIS data collected by NAIS Increment 1	
3.7.2.0-3	The system shall identify and consolidate duplicate AIS messages	
3.7.2.0-4	The system shall record the receipt of, and all metadata associated with, all duplicate messages	
3.7.3.0-1	The system shall store the user identity of the sender of AIS messages	
3.7.3.0-2	The system shall detect and report any loss of NAIS data integrity	
3.7.4.0-1	The system shall provide a redundant storage solution	
3.7.4.0-2	The system shall have the ability to archive and recover all NAIS	
3.7.4.0-3	The system shall automatically and periodically back up all NAIS data	
3.7.4.0-4	The system shall allow system operators to initiate data backup	
3.7.4.0-5	The system shall provide the capability to purge archived NAIS data	
3.7.4.0-6	The system shall store AIS messages in both raw and parsed format	
3.8.1.0-1	The system shall provide well defined interfaces to control data export	
3.8.1.0-2	The system shall be capable of exporting NAIS data at a rate that reflects the maximum limits of the scalability requirements described in Table 3.2	
3.8.1.0-3	The system shall allow the execution of user-defined data queries	

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3.8.1.0-4	The system shall allow configurable query parameters	
3.8.1.0-5	The system shall provide a common service for distribution for data	
3.8.2.0-1	The system shall be able to create and transmit all AIS messages	
3.8.2.0-2	The system shall be able to create weather binary messages	
3.8.2.0-3	The system shall be able to receive and process a continuous external weather data feed (e.g., RSS) from the NWS in XML format	
3.8.2.0-4	The system shall be able to automatically and periodically broadcast weather binaries	
3.8.2.0-5	The system shall provide the capability to configure the type of weather information broadcast to each sector	
3.8.2.0-6	The system shall provide the capability to configure the periodicity of weather information broadcasts	
3.8.2.0-7	The system shall automatically route AIS messages	
3.8.2.0-8	The system shall be able to repeat AIS message transmission	
3.8.2.0-9	The system shall provide the capability to transmit to a specific vessel	
3.8.2.0-10	The system shall provide the capability to transmit to an arbitrary group of vessels	
3.8.2.0-11	The system shall provide the capability to transmit to selected vessels	
3.8.2.0-12	The system shall provide the capability to transmit to specific types of vessels	
3.8.2.0-13	The system shall provide the capability to transmit to aircraft	
3.8.2.0-14	The system shall be able to create and send predefined messages	
3.8.2.0-15	The system shall provide a method for configuring thresholds to trigger automatic message transmission	
3.8.2.0-16	The system shall be able to schedule transmission of predefined messages	
3.8.2.0-17	The system shall utilize a routing schemes for message transmission	
3.8.2.0-18	Transmitted AIS messages shall be forwarded to the Data Storage Component within the time constraints provided	
3.8.2.0-19	The system shall be able to send AIS messages based on one or a combination of the listed means	
3.8.2.0-20	The system shall provide functionality to support operator capabilities as provided	
3.8.3.0-1	The system shall provide a standard interface to import AIS messages from external sources to the Data Storage Component	
3.8.3.0-2	The system shall be capable of importing data from a minimum of five external data providers using 20 PSSs, each at 100% VDL loading	
3.8.3.0-3	The system shall provide the capability to manage the NAIS data	
3.8.3.0-4	The system shall provide an interface to import AIS messages from the provided external systems	
3.9.1.0-1	All HSI functionality shall be browser compatible	
3.9.1.0-2	HSI functionality shall allow all system management responsibilities to be met by only three watchstations	
3.9.1.0-3	Human system interface software and functionality shall be loosely coupled with the rest of the system	
3.9.1.0-4	The human system interface(s) to be used in the NAIS system shall support the three specified user groups	
3.9.1.0-5	All HSI software shall be capable of running on a Standard WSIII	
3.9.1.0-6	The user interface shall identify encrypted/decrypted messages	
3.9.2.0-1	The system shall comply with the listed HSI standards	
3.9.2.0-2	NAIS interface modules shall maintain the same GUI standards and look-and-feel of the legacy applications	
3.9.3.0-1	The system shall be capable of using and displaying GIS layers	

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3.9.3.0-2	The system shall be capable of importing NMEA 0183 Waypoint Files	
3.9.3.0-3	The system shall employ a GIS visualization tool	
3.9.3.0-4	The system shall provide a graphical interface by which to display	
3.9.3.0-5	The system shall provide a graphical interface with which to create and manipulate vessel tracks	
3.9.3.0-6	The system shall have functionality to generate and send AIS messages	